

Amendments to the Specification:

Please amend the paragraph starting at page 1, line 11,
as follows:

-- ~~International patent publication WO 99/52004~~ United States Patent 6,707,616 discloses catadioptric optic projection objectives which include a plurality of aspheric lens surfaces. For example, the projection objective shown in FIG. 4 includes 12 aspheric lens surfaces for 15 lenses. The manufacturing costs of aspheric lens surfaces with the accuracy required in microlithography are very high. Accordingly, these objectives are of little interest in the marketplace because of the many required aspheric lens surfaces. --

Please amend the paragraph starting at page 1, line 19,
as follows:

-- ~~European patent publication 0 322 201~~ United States Patent 4,875,380 discloses an optical projection system especially for photolithography. The projection objective known from this publication includes five lens groups. The first, second, third and fifth lens groups each have only one lens. In part, the lenses are provided with aspheric lens surfaces. An aspheric object end mounted lens surface of the fifth lens group follows an aspheric lens surface mounted in the fourth lens group at the image end. --

Please amend the paragraph starting at page 32, line 1,
as follows: --

TABLE 5

LENSES	RADII	THICKNESSES	GLASSES	REFRACTIVE INDEX	
				AT 193.304nm	1/2 FREE DIAMETER
0	infinite	32.000000000	L710	0.99998200	54.410
	infinite	0.700000000	L710	0.99998200	61.800
L501	1062.826934956AS	17.734965551	SIO2	1.56028895	62.680
	-280.649155373	9.921059017	HE	0.99971200	63.358
L502	-198.612797944	9.733545477	SIO2	1.56028895	63.454
	-157.546275141	15.417407860	HE	0.99971200	64.281
L503	-400.277413338	11.803054495	SIO2	1.56028895	63.163
	-182.515287485	19.059582585	HE	0.99971200	63.316
L504	-86.486413985	9.000000000	SIO2	1.56028895	62.723
	-79.976798205AS	3.314115561	HE	0.99971200	64.356
L505	-102.262183494AS	6.000000000	SIO2	1.56028895	61.260
	-275.242312561	7.844485351	HE	0.99971200	62.494
L506	-191.274205909	6.000000000	SIO2	1.56028895	62.450
	180.723494008	40.175681177	HE	0.99971200	65.811
L507	-108.539011643	6.000000000	SIO2	1.56028895	67.752
	10000.000000000AS	23.009626916	HE	0.99971200	86.379
L508	-481.040730284	35.657298256	SIO2	1.56028895	100.931
	-165.828518942	0.700000000	HE	0.99971200	106.719
L509	-5243.952853546AS	59.233771719	SIO2	1.56028895	134.666
	-218.541408733	2.123657562	HE	0.99971200	139.441
L510	-402.136827778	25.000000000	SIO2	1.56028895	145.856
	-276.854279724	1.637353303	HE	0.99971200	148.618
L511	796.304534481	36.805305429	SIO2	1.56028895	156.741
	2360.950907095	10.808883416	HE	0.99971200	157.059
L512	2256.926430541	60.789786196	SIO2	1.56028895	157.684
	-336.450738373	0.801676910	HE	0.99971200	157.856
L513	161.617552542	66.152351274	SIO2	1.56028895	125.624
	-6835.350709889AS	0.744366824	HE	0.99971200	121.362
L514	2851.162473443	8.000000000	SIO2	1.56028895	118.726
	173.208226906	18.750820117	HE	0.99971200	97.559
L515	318.351302869	8.000000000	SIO2	1.56028895	95.703
	214.643166184	38.151364608	HE	0.99971200	89.760
L516	-261.549915460	6.000000000	SIO2	1.56028895	88.331
	119.510683982AS	66.550546342	HE	0.99971200	82.116
L517	-126.322271364	6.000000000	SIO2	1.56028895	83.464
	1722.207555551	24.185704173	HE	0.99971200	102.415
L518	-506.819064828	30.988960270	SIO2	1.56028895	111.113
	-242.042046428	0.700000000	HE	0.99971200	118.861
L519	-728.789614455	30.297084361	SIO2	1.56028895	132.704
	-269.518093553	0.700000000	HE	0.99971200	135.576
L520	-1024.754284774	27.306923440	SIO2	1.56028895	147.201
	-361.037355343	0.700000000	HE	0.99971200	149.061
L521	929.096482269	49.082091976	SIO2	1.56028895	161.109
	-497.886578908	15.000000000	HE	0.99971200	161.854
	infinite	-10.000000000	HE	0.99971200	158.597
L522	352.973470359AS	22.735479730	SIO2	1.56028895	159.957
	529.864238000	1.119499649	HE	0.99971200	158.688
L523	422.718681400	57.532074113	SIO2	1.56028895	158.278
	-733.230538894	37.317449332	HE	0.99971200	156.533
L524	-261.165349728	15.000000000	SIO2	1.56028895	155.119
	-292.119447959AS	18.962883498	HE	0.99971200	156.043
L525	-226.263316842AS	19.009003051	SIO2	1.56028895	155.000
	-231.163516914	0.700000000	HE	0.99971200	157.710
L526	245.306778718	23.024380018	SIO2	1.56028895	124.547
	403.694577141	0.700000000	HE	0.99971200	121.262
L527	132.188567375	28.647981266	SIO2	1.56028895	104.696
	199.679919884	0.700019350	HE	0.99971200	101.254
L528	138.967602414	36.537553325	SIO2	1.56028895	93.617
	1194.093826692AS	8.108769689	HE	0.99971200	89.148
L529	infinite	25.923824338	CaF2	1.50143563	82.715
	infinite	5.000000000	L710	0.99998200	63.301
L530	infinite	25.000000000	CaF2	1.50143563	52.976
	infinite	10.000000000	L710	0.99998200	34.253
L531	infinite	0.000000000			13.603

L710 = Air at 710 Torr --